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C1 In addition, as is more fully outlined below, cell cycle proteins can be made that are longer than those depicted in Figure 2 (SEQ ID NO:2); for example, by the addition of epitope or purification tags, the addition of other fusion sequences, or the elucidation of additional coding and non-coding sequences. As described below, the fusion of a cell cycle peptide to a fluorescent peptide, such as Green Fluorescent Peptide (GFP), is particularly preferred.

Cell cycle proteins may also be identified as encoded by cell cycle nucleic acids which hybridize to the sequence depicted in Figure 1 (SEQ ID NO:1), or the complement thereof, as outlined herein. Hybridization conditions are further described below.--

In the Claims

Please cancel Claims 1-10.

Please add the following new claims:

C2 --24. A recombinant nucleic acid encoding a Mkinase protein, comprising a nucleic acid sequence having at least about 95% identity to the full length nucleic acid sequence set forth in SEQ ID NO:1, wherein said Mkinase protein binds to a Traf4 protein.

25. A recombinant nucleic acid encoding a Mkinase protein, comprising the nucleic acid sequence set forth in SEQ ID NO:1.

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C2 26. A recombinant nucleic acid encoding a Mkinase protein, which protein comprises an amino acid sequence having at least about 95% identity to the full length amino acid sequence set forth in SEQ ID NO:2, wherein said Mkinase protein binds to a Traf4 protein.

Sub E1 27. A recombinant nucleic acid encoding a Mkinase protein, wherein said Mkinase comprises the amino acid sequence set forth in SEQ ID NO:2.

28. A recombinant nucleic acid according to Claim 24, 25, 26, or 27, further comprising a fusion partner.

Sub E1 29. An expression vector, comprising a recombinant nucleic acid according to any one of Claims 24-27 operably linked to a regulatory sequences recognized by a host cell transformed with the nucleic acid.

30. A host cell comprising a nucleic acid according to any one of Claims 24-27.

Sub E1 31. A host cell comprising an expression vector according to Claim 29.

32. A process for producing a Mkinase protein, comprising culturing a host cell according to Claim 30 or 31 under conditions suitable for expression of said Mkinase protein.

Concluded 33. A process according to Claim 32, further comprising recovering said Mkinase protein.--